Solar System – Cobra Invitational 2015 ANSWER KEY

TEAM NUMBER: \_\_\_\_\_\_ TEAM NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SCORE: \_\_\_\_\_\_/\_\_\_\_\_\_= 100%

1. F

2. E

3. K

4. J

5. N

6. G

7. L

8. D

9. O

10. A

11. B or C

12. H

13. M

14. I

15. B or C

16. Object: Titan

Mission: Cassini

17. Object: Iapetus

Mission: Cassini

18. Object: Mars

Region: South Pole

Mission: Mars Polar Lander

19. Object: Enceladus

Mission: Cassini

20. Object: Mars

Mission: Mars Express Orbiter

21. Object: Europa

Mission: Galileo

22. Image I

23. Xanadu Region

24. Phobos & Deimos

25. Image O

26. Cassini & HST

27. Image F

28. Mars

29. Image N

30. Iapetus, 0.5, 0.05

31. Enceladus

32. Magnetic Field

33. Image AA

34. Image K

35. Synchronous Rotation

36. Image X

37. Image E

38. Equatorial Glacial Region

39. CO2

40. C

41. D

42. B

43. I

44. A

45. M

46. H

47. F

48. E

49. J

50. K

51. G

52. L

53. Pluto, Ceres, Haumea, Makemake, Eris

54. 4.6 billion years, 13.8 billion years

55. Late Heavy Bombardment

56. Curiosity, Spirit, Opportunity, Sojourner

57. Tharsis Bulge, Valles Marineris

58. Pavonis Mons, Ascreaus Mons, Arsia Mons

59. Cassini Mission

Year: 1997

Y/N: Yes

60. Curiosity Rover

Year: 2011

Y/N: Yes

61. Voyager II

Year: 1977

Y/N: Yes

62. Dawn Mission

Year: 2007

Y/N: Yes

63. E

64. D

65. A

66. C

67. F

68. B

69. the interior of Mars

70. Camera, Spectrometer, Radar

71. It will be orbiting Jupiter inside their orbits

72. Flyby, Orbiter, Probe, Lander, Rover, SRM

73. Dawn: Vesta Ceres

Other 2: Pallas Hygeia

74. Asteroids

75. Kirchoff Gaps, Image U

76. Orbital distances of the 5 inner most planets

77. 4 & 5

78. Ceres

79. Titius-Bode Law

80. Asteroids

Mercury: 0

Venus: 0

Earth: 1

Mars: 5

Jupiter: 5884

Saturn: 0

Uranus: 1

Neptune: 9

81. Amors, Atens, Apollos, Atiras

82. C: Carbonaceous

M: Metallic

S: Silicaceous

83. A: Solar Wind

B: Rocky Core

C: Coma

D: Ice & Frozen

E: Ion Tail

F: Dust Tail

84. B, C, D

85. C

86. B

87. E

88. A

89. D

90. Mars

91. Titan

92. Titan

93. Enceladus, 0.99

94. Ammonia

95. Stratosphere,Troposphere

96. Habitable Zone

97. Earth Conditions

98. Snowline (or Frostline)

99. Water, Ammonia, Methane, Hydrogen

100. Titan

101. 1/16

102. 19 days

103. 8 years

104. Water Hole

105. Solid or Ice

106. Ice

107. Enceladus, Europa